

SEQUENCE LISTING

<110> GVS Gesellschaft für Erwerb und Verwertung von Sch

<120> Processive Sugartransferase

<130> G7204

<140>

<141>

<150> PCT/DE99/00857

<151> 1999-03-25

<150> DE 198 13 017.1

<151> 1998-03-25

<150> DE 198 19 958.9

<151> 1998-05-05

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<170> PatentIn Ver. 2.1

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<211> 1149

<212> DNA

<213> Bacillus subtilis

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 aatttgtacc aagagtcata tccgattggt tcagaggtaa ctcaatacct ttatttaaaa 180
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35 40 45
Ile Val Ser Glu Val Thr Gln Tyr Leu Tyr Leu Lys Ser Phe Ser Ile
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Gly Lys Gln Phe Tyr Arg Leu Phe Tyr Tyr Gly Val Asp Lys Ile Tyr
65 70 75 80
Asn Lys Arg Lys Phe Asn Ile Tyr Phe Lys Met Gly Asn Lys Arg Leu
85 90 95
Gly Glu Leu Val Asp Glu His Gln Pro Asp Ile Ile Ile Asn Thr Phe
100 105 110
Pro Met Ile Val Val Pro Glu Tyr Arg Arg Arg Thr Gly Arg Val Ile
115 120 125
Pro Thr Phe Asn Val Met Thr Asp Phe Cys Leu His Lys Ile Trp Val
130 135 140
His Glu Asn Val Asp Lys Tyr Tyr Val Ala Thr Asp Tyr Val Lys Glu
145 150 155 160
Lys Leu Leu Glu Ile Gly Thr His Pro Ser Asn Val Lys Ile Thr Gly
165 170 175
Ile Pro Ile Arg Pro Gln Phe Glu Glu Ser Met Pro Val Gly Pro Ile
180 185 190
Tyr Lys Lys Tyr Asn Leu Ser Pro Asn Lys Lys Val Leu Leu Ile Met
195 200 205

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Leu Val Lys Asp Asp Gln Val Gln Val Val Val Val Cys Gly Lys Asn
 225 230 235 240

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 245 250 255

Lys Leu Lys Val Leu Gly Tyr Val Glu Arg Ile Asp Glu Leu Phe Arg
 260 265 270

Ile Thr Asp Cys Met Ile Thr Lys Pro Gly Gly Ile Thr Leu Thr Glu
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Ala Thr Ala Ile Gly Val Pro Val Ile Leu Tyr Lys Pro Val Pro Gly
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Gln Glu Lys Glu Asn Ala Asn Phe Phe Glu Asp Arg Gly Ala Ala Ile
 305 310 315 320

Val Val Asn Arg His Glu Glu Ile Leu Glu Ser Val Thr Ser Leu Leu
 325 330 335

Ala Asp Glu Asp Thr Leu His Arg Met Lys Lys Asn Ile Lys Asp Leu
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<212> DNA

<213> Staphylococcus aureus

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 aacaaatttg aaacgcctat taatcaaaag cagtgggttaa tagacaacaa cttagatcca 600
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<212> PRT

<213> Staphylococcus aureus

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Met Asn Leu Asp His Leu Ser Val Ile Glu His Asp Leu Phe Met Glu
 35 40 45

Ala His Pro Ile Leu Thr Ser Ile Cys Lys Lys Trp Tyr Ile Asn Ser
 50 55 60

Phe Lys Tyr Phe Arg Asn Met Tyr Lys Gly Phe Tyr Tyr Ser Arg Pro
 65 70 75 80

Asp Lys Leu Asp Lys Cys Phe Tyr Lys Tyr Tyr Gly Leu Asn Lys Leu
 85 90 95

Ile Asn Leu Leu Ile Lys Glu Lys Pro Asp Leu Ile Leu Leu Thr Phe
 100 105 110

Pro Thr Pro Val Met Ser Val Leu Thr Glu Gln Phe Asn Ile Asn Ile
 115 120 125

Pro Val Ala Thr Val Met Thr Asp Tyr Arg Leu His Lys Asn Trp Ile
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Thr Pro Tyr Ser Thr Arg Tyr Tyr Val Ala Thr Lys Glu Thr Lys Gln
 145 150 155 160

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Asp Phe Ile Asp Val Gly Ile Asp Pro Ser Thr Val Lys Val Thr Gly
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Ile Pro Ile Asp Asn Lys Phe Glu Thr Pro Ile Asn Gln Lys Gln Trp
 180 185 190

Leu Ile Asp Asn Asn Leu Asp Pro Asp Lys Gln Thr Ile Leu Met Ser
 195 200 205

Ala Gly Ala Phe Gly Val Ser Lys Gly Phe Asp Thr Met Ile Thr Asp
 210 215 220

Ile Leu Ala Lys Ser Ala Asn Ala Gln Val Val Met Ile Cys Gly Lys
 225 230 235 240

Ser Lys Glu Leu Lys Arg Ser Leu Thr Ala Lys Phe Lys Leu Thr Arg
 245 250 255

Met Tyr Leu Ile Leu Gly Tyr Thr Lys His Met Asn Glu Trp Met Ala
 260 265 270

Ser Ser Gln Leu Met Ile Thr Lys Pro Gly Gly Ile Thr Ile Thr Glu
 275 280 285

Gly Phe Ala Arg Cys Ile Pro Met Ile Phe Leu Asn Pro Ala Pro Gly
 290 295 300

Gln Glu Leu Glu Asn Ala Phe Tyr Phe Glu Glu Lys Gly Phe Gly Lys
 305 310 315 320

Ile Ala Asp Thr Pro Glu Glu Ala Ile Lys Ile Val Ala Ser Leu Thr
 325 330 335

Asn Gly Asn Glu Gln Leu Thr Asn Met Ile Ser Thr Met Glu Gln Asp
 340 345 350

Lys Ile Lys Tyr Ala Thr Gln Thr Ile Cys Arg Asp Leu Leu Asp Leu
 355 360 365

Ile Gly His Ser Ser Gln Pro Gln Glu Ile Tyr Gly Lys Val Pro Leu
 370 375 380

Tyr Ala Arg Phe Phe Val Lys
 385 390

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